

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: July 1, 2003, 17:51:55 ; Search time 26 Seconds

(without alignments)
1712.177 Million cell updates/sec

Title: US-09-782-587B-1

Perfect score: 2187
Sequence: 1 ANAFLXXLRPGLRXKCKX.....LQKMRSEPPVLLRAPPP 406Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 424699 segs, 109646833 residues

Total number of hits satisfying chosen parameters: 424699

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA.*
1: /cgn2_6/ptodata/1/pubppaa/US08_NEW_PUB.pep.*
2: /cgn2_6/ptodata/1/pubppaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubppaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubppaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubppaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubppaa/US07_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubppaa/PCTUS_PUBCOMB.pep.*
8: /cgn2_6/ptodata/1/pubppaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubppaa/US09_NEW_PUB.pep.*
10: /cgn2_6/ptodata/1/pubppaa/US09_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubppaa/US10_NEW_PUB.pep.*
12: /cgn2_6/ptodata/1/pubppaa/US10_PUBCOMB.pep.*
13: /cgn2_6/ptodata/1/pubppaa/US60_NEW_PUB.pep.*
14: /cgn2_6/ptodata/1/pubppaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2167	99.1	406	9	US-10-109-498-1
2	2167	99.1	406	9	US-09-782-587B-1
3	2167	99.1	406	9	US-09-782-587B-3
4	2167	99.1	406	9	US-10-255-032-1
5	2167	99.1	466	9	US-10-017-123-2
6	2098	95.9	426	9	US-10-295-682-1
7	2098	95.9	426	9	US-09-951-121A-1
8	849	38.8	461	9	US-10-234-406-8
9	849	38.8	461	10	US-09-884-901-3
10	847	38.7	461	9	US-10-132-823-5
11	847	38.7	461	9	US-10-234-406-6
12	845	38.6	415	10	US-09-118-748-2
13	736	33.7	415	9	US-10-182-263-6
14	735	33.6	419	9	US-10-182-263-5
15	730	33.4	419	9	US-10-182-263-3
16	726	33.2	419	9	US-10-182-263-1
17	726	33.2	419	9	US-10-182-263-4
18	726	33.2	419	9	US-09-978-917A-4
19	726	33.2	461	9	US-10-182-263-2

20	726	33.2	461	9	US-09-978-917A-2	Sequence 2, App11
21	466.5	21.3	802	9	US-09-978-295A-169	Sequence 169, App
22	466.5	21.3	802	9	US-09-978-697-169	Sequence 169, App
23	466.5	21.3	802	9	US-09-978-192A-169	Sequence 169, App
24	466.5	21.3	802	9	US-09-999-832A-169	Sequence 169, App
25	466.5	21.3	802	9	US-09-978-189-169	Sequence 169, App
26	466.5	21.3	802	9	US-09-978-608A-169	Sequence 169, App
27	466.5	21.3	802	9	US-09-978-191A-169	Sequence 169, App
28	466.5	21.3	802	9	US-09-978-403A-169	Sequence 169, App
29	466.5	21.3	802	9	US-09-978-585A-169	Sequence 169, App
30	466.5	21.3	802	9	US-09-978-585A-169	Sequence 169, App
31	466.5	21.3	802	9	US-10-017-081A-169	Sequence 169, App
32	466.5	21.3	802	9	US-09-978-824-169	Sequence 169, App
33	466.5	21.3	802	9	US-09-981-915A-169	Sequence 169, App
34	466.5	21.3	802	9	US-09-999-833A-169	Sequence 169, App
35	466.5	21.3	802	9	US-10-167-749-169	Sequence 169, App
36	466.5	21.3	802	9	US-09-918-585A-169	Sequence 169, App
37	466.5	21.3	802	9	US-09-978-423A-169	Sequence 169, App
38	466.5	21.3	802	9	US-10-013-921A-169	Sequence 169, App
39	466.5	21.3	802	9	US-09-978-193A-169	Sequence 169, App
40	466.5	21.3	802	9	US-10-013-929A-169	Sequence 169, App
41	466.5	21.3	802	9	US-10-016-177A-169	Sequence 169, App
42	466.5	21.3	802	9	US-09-999-830A-169	Sequence 169, App
43	466.5	21.3	802	9	US-09-978-757A-169	Sequence 169, App
44	466.5	21.3	802	9	US-09-978-187B-169	Sequence 169, App
45	466.5	21.3	802	9	US-09-978-643A-169	Sequence 169, App

ALIGNMENTS

RESULT 1
US-10-109-498-1
; Sequence 1, Application US/10109498
; Publication NO. US20030044908A1
; GENERAL INFORMATION:
; APPLICANT: Persson, Egon
; TITLE OF INVENTION: Coagulation Factor VII Derivatives
; FILE REFERENCE: 6286-200-US
; CURRENT APPLICATION NUMBER: US/10/109,498
; CURRENT FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: 60/281,261
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: PA 2001 00477
; PRIOR FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 406
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)...(406)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-10-109-498-1

Query Match
Best Local Similarity 99.1%; Score 2167; DB 9; Length 406;
Matches 406; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ANAFLXXLRPGLRXKCKXOCFFXXARIEFDAYRTKLFWISYDGDCCASSPONGS 60
|||||
1 ANAFLXXLRPGLRXKCKXOCFFXXARIEFDAYRTKLFWISYDGDCCASSPONGS 60
61 CKDQLOSYICFCLPAFEGNCEHTRKDDQLICVNEGCGEOYCSDBTGTFRSCHEGYSL 120
|||||
61 CKDQLOSYICFCLPAFEGNCEHTRKDDQLICVNEGCGEOYCSDBTGTFRSCHEGYSL 120
121 LADGVSCTPTVYPPGKIPILEKRNASKPQGRITVGKVCPEGCEWYLLVNGAQLCGG 180
|||||
121 LADGVSCTPTVYPPGKIPILEKRNASKPQGRITVGKVCPEGCEWYLLVNGAQLCGG 180
Db

181 TLINTIIVWSAHCEDKIKNNRNLIJAVGEHDLSEHGDDEQSRRAVYIIPSTVPGTTN 240
181 TLINTIIVWSAHCEDKIKNNRNLIJAVGEHDLSEHGDDEQSRRAVYIIPSTVPGTTN 240
241 HDIALRLHQPVLTDHVPVLCPLPRTSERTLAFFVRSLVSGMQLDRGATALELAVL 300
241 HDIALRLHQPVLTDHVPVLCPLPRTSERTLAFFVRSLVSGMQLDRGATALELAVL 300
301 NVPRMLTQDCLOQSKRVDSFNITEYMFACAGYSDGSKGDSGCPATHYRGTYLTLG 360
301 NVPRMLTQDCLOQSKRVDSFNITEYMFACAGYSDGSKGDSGCPATHYRGTYLTLG 360
361 IVSMGCGCATVGHFGVYTRVSQYIEMLOKLMRSEPRPGLLRAPP 406
361 IVSMGCGCATVGHFGVYTRVSQYIEMLOKLMRSEPRPGLLRAPP 406

RESULT 2
US-09-782-587b-1
Sequence 1, Application US/09782587B
Publication No. US20030096338A1
GENERAL INFORMATION:
APPLICANT: PEDERSEN, ANDERS H.
APPLICANT: ANDERSON, KIM V.
APPLICANT: BORNAES, CLAUD
TITLE OF INVENTION: FACTOR VII OR VIIA-LIKE MOLECULES
FILE REFERENCE: 31-001100US
CURRENT FILING DATE: 2002-03-26
PRIOR FILING DATE: 2002-03-26
PRIOR APPLICATION NUMBER: PA 2000 00218
PRIOR FILING DATE: 2000-02-11
PRIOR APPLICATION NUMBER: 60/184,036
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: 60/241,916
PRIOR FILING DATE: 2000-10-18
NUMBER OF SEQ ID NOS: 19
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 1
LENGTH: 406
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: MOD.RES
LOCATION: (6)-(7)
OTHER INFORMATION: Gamma carboxylutamic acid or glutamic acid
NAME/KEY: MOD.RES
LOCATION: (14)
OTHER INFORMATION: Gamma carboxylutamic acid or glutamic acid
NAME/KEY: MOD.RES
LOCATION: (16)
OTHER INFORMATION: Gamma carboxylutamic acid or glutamic acid
NAME/KEY: MOD.RES
LOCATION: (19)-(20)
OTHER INFORMATION: Gamma carboxylutamic acid or glutamic acid
NAME/KEY: MOD.RES
LOCATION: (25)-(26)
OTHER INFORMATION: Gamma carboxylutamic acid or glutamic acid
NAME/KEY: MOD.RES
LOCATION: (29)
OTHER INFORMATION: Gamma carboxylutamic acid or glutamic acid
NAME/KEY: MOD.RES
LOCATION: (35)
OTHER INFORMATION: Gamma carboxylutamic acid or glutamic acid
US-09-782-587b-1

Query Match 99.1%; Score 2167; DB 9; Length 406;
Best Local Similarity 100.0%; Pred. No. 1.2e-151;
Matches 406; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ANAFLLXLRPGSLRXKXKXCSFXAXRIFKDXARTKLFWISYSDGQDASSPCQNGS 60
DB 1 ANAFLLXLRPGSLRXKXKXCSFXAXRIFKDXARTKLFWISYSDGQDASSPCQNGS 60

OY 61 CKDQLOSYICFCPLAFEGRNCEHKKDDOLICVNEGCCQYCSHTGTKRSCRCHEGYSL 120
DB 61 CKDQLOSYICFCPLAFEGRNCEHKKDDOLICVNEGCCQYCSHTGTKRSCRCHEGYSL 120
OY 121 LADGVSCTPVEYPCGKIPILKRNASKPQGRIVGKCPGECPCWYLLVNGAQLCGG 180
DB 121 LADGVSCTPVEYPCGKIPILKRNASKPQGRIVGKCPGECPCWYLLVNGAQLCGG 180
OY 181 TLINTIIVWSAHCEDKIKNNRNLIJAVGEHDLSEHGDDEQSRRAVYIIPSTVPGTTN 240
DB 181 TLINTIIVWSAHCEDKIKNNRNLIJAVGEHDLSEHGDDEQSRRAVYIIPSTVPGTTN 240
OY 241 HDIALRLHQPVLTDHVPVLCPLPRTSERTLAFFVRSLVSGMQLDRGATALELAVL 300
DB 241 HDIALRLHQPVLTDHVPVLCPLPRTSERTLAFFVRSLVSGMQLDRGATALELAVL 300
OY 301 NVPRMLTQDCLOQSKRVDSFNITEYMFACAGYSDGSKGDSGCPATHYRGTYLTLG 360
DB 301 NVPRMLTQDCLOQSKRVDSFNITEYMFACAGYSDGSKGDSGCPATHYRGTYLTLG 360
OY 361 IVSMGCGCATVGHFGVYTRVSQYIEMLOKLMRSEPRPGLLRAPP 406
DB 361 IVSMGCGCATVGHFGVYTRVSQYIEMLOKLMRSEPRPGLLRAPP 406

RESULT 3
US-09-782-587b-3
Sequence 3, Application US/09782587B
Publication No. US20030096338A1
GENERAL INFORMATION:
APPLICANT: PEDERSEN, ANDERS H.
APPLICANT: ANDERSON, KIM V.
APPLICANT: BORNAES, CLAUD
TITLE OF INVENTION: FACTOR VII OR VIIA-LIKE MOLECULES
FILE REFERENCE: 31-001100US
CURRENT FILING DATE: 2002-03-26
PRIOR FILING DATE: 2002-03-26
PRIOR APPLICATION NUMBER: PA 2000 00218
PRIOR FILING DATE: 2000-02-11
PRIOR APPLICATION NUMBER: 60/184,036
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: 60/241,916
PRIOR FILING DATE: 2000-10-18
NUMBER OF SEQ ID NOS: 19
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 3
LENGTH: 406
TYPE: PRT
ORGANISM: Homo sapiens
US-09-782-587b-3

Query Match 99.1%; Score 2167; DB 9; Length 406;
Best Local Similarity 97.5%; Pred. No. 1.2e-151;
Matches 396; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 1 ANAFLLXLRPGSLRXKXKXCSFXAXRIFKDXARTKLFWISYSDGQDASSPCQNGS 60
DB 1 ANAFLELRPGSLRECKEBCSFEAREIFKDXARTKLFWISYSDGQDASSPCQNGS 60
OY 61 CKDQLOSYICFCPLAFEGRNCEHKKDDOLICVNEGCCQYCSHTGTKRSCRCHEGYSL 120
DB 61 CKDQLOSYICFCPLAFEGRNCEHKKDDOLICVNEGCCQYCSHTGTKRSCRCHEGYSL 120
OY 121 LADGVSCTPVEYPCGKIPILKRNASKPQGRIVGKCPGECPCWYLLVNGAQLCGG 180
DB 121 LADGVSCTPVEYPCGKIPILKRNASKPQGRIVGKCPGECPCWYLLVNGAQLCGG 180
OY 181 TLINTIIVWSAHCEDKIKNNRNLIJAVGEHDLSEHGDDEQSRRAVYIIPSTVPGTTN 240
DB 181 TLINTIIVWSAHCEDKIKNNRNLIJAVGEHDLSEHGDDEQSRRAVYIIPSTVPGTTN 240
OY 241 HDIALRLHQPVLTDHVPVLCPLPRTSERTLAFFVRSLVSGMQLDRGATALELAVL 300
DB 241 HDIALRLHQPVLTDHVPVLCPLPRTSERTLAFFVRSLVSGMQLDRGATALELAVL 300

Db 241 HDIALRLHQPVLTDHVPVLCIPERTFSERTLAFAVRSLSVSGQLDRGATALEMLVL 300
OY 301 NVPRMTODCLOOSRKRVGSDSPNITEYMFCAVSDGSKDSCGSGPHATHYRGTYLWG 360
Db 301 NVPRMTODCLOOSRKRVGSDSPNITEYMFCAVSDGSKDSCGSGPHATHYRGTYLWG 360
OY 361 IYVSGGCGATVGHGFGYTRYSQYIEMLOKLMRSEPRGVLLRAPFP 406
Db 361 IYVSGGCGATVGHGFGYTRYSQYIEMLOKLMRSEPRGVLLRAPFP 406

RESULT 4
US-10-255-032-1

Sequence 1, Application US/10255032
Publication No. US2003010075A1
GENERAL INFORMATION:
APPLICANT: No. US2003010075A1o No. US2003010075A1disk A/S
TITLE OF INVENTION: HUMAN COAGULATION FACTOR VII POLYPEPTIDES
FILE REFERENCE: 6357-WO
CURRENT APPLICATION NUMBER: US/10/255,032
CURRENT FILING DATE: 2002-09-24
PRIOR APPLICATION NUMBER: DK PA 2001 01413
PRIOR FILING DATE: 2001-09-27
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 406
TYPE: PRT
ORGANISM: human coagulation Factor VII
FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (1)..(406)
OTHER INFORMATION: Xaa means 4-carboxyglutamic acid (gamma-carboxyglutamate)
US-10-255-032-1

Query Match
Best Local Similarity 100.0%; Score 2167; DB 9; Length 406;
Matches 406; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ANAFLLXLRPGSLRXKCKXXCSEFXAXRIFKDAXRKLFWISYSDGDCASSPCONGGS 60
Db 1 ANAFLLXLRPGSLRXKCKXXCSEFXAXRIFKDAXRKLFWISYSDGDCASSPCONGGS 60
OY 61 CKDQLOSYICFCLPAFEGRNCEHNDQILCVNENGCEQYCSDHGTGRKSCHEGYSYL 120
Db 61 CKDQLOSYICFCLPAFEGRNCEHNDQILCVNENGCEQYCSDHGTGRKSCHEGYSYL 120
OY 121 LADGVSTPTVEYPCGKIPILKRNASKPOGRIVGKVCPEKCEPMQVLLVNGAQLCGG 180
Db 121 LADGVSTPTVEYPCGKIPILKRNASKPOGRIVGKVCPEKCEPMQVLLVNGAQLCGG 180
OY 181 TLINTIMVYSAACFPDKIKMNRNLIAVGEHDLSEHDGDSQSRVAQVLIIPSTYVGTTN 240
Db 181 TLINTIMVYSAACFPDKIKMNRNLIAVGEHDLSEHDGDSQSRVAQVLIIPSTYVGTTN 240
OY 241 HDIALRLHQPVLTDHVPVLCIPERTFSERTLAFAVRSLSVSGQLDRGATALEMLVL 300
Db 241 HDIALRLHQPVLTDHVPVLCIPERTFSERTLAFAVRSLSVSGQLDRGATALEMLVL 300
OY 301 NVPRMTODCLOOSRKRVGSDSPNITEYMFCAVSDGSKDSCGSGPHATHYRGTYLWG 360
Db 301 NVPRMTODCLOOSRKRVGSDSPNITEYMFCAVSDGSKDSCGSGPHATHYRGTYLWG 360
OY 361 IYVSGGCGATVGHGFGYTRYSQYIEMLOKLMRSEPRGVLLRAPFP 406
Db 361 IYVSGGCGATVGHGFGYTRYSQYIEMLOKLMRSEPRGVLLRAPFP 406

RESULT 5
US-10-017-122-2
Sequence 2, Application US/10017122
Publication No. US20030087244A1
GENERAL INFORMATION:

APPLICANT: McCarthy, Jeanette
TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF VASCULAR DISEASE
FILE REFERENCE: WMI-007
CURRENT APPLICATION NUMBER: US/10/017,122
CURRENT FILING DATE: 2001-12-14
PRIOR APPLICATION NUMBER: 60/327,487
PRIOR FILING DATE: 2001-10-09
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 466
TYPE: PRT
ORGANISM: Homo sapiens
US-10-017-122-2

Query Match
Best Local Similarity 99.1%; Score 2167; DB 9; Length 466;
Matches 396; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 1 ANAFLLXLRPGSLRXKCKXXCSEFXAXRIFKDAXRKLFWISYSDGDCASSPCONGGS 60
Db 61 ANAFLELRPGSLRECKEQQCFEARELFKDAERTKLFWISYSDGDCASSPCONGGS 120
OY 61 CKDQLOSYICFCLPAFEGRNCEHNDQILCVNENGCEQYCSDHGTGRKSCHEGYSYL 120
Db 121 CKDQLOSYICFCLPAFEGRNCEHNDQILCVNENGCEQYCSDHGTGRKSCHEGYSYL 180
OY 121 LADGVSTPTVEYPCGKIPILKRNASKPOGRIVGKVCPEKCEPMQVLLVNGAQLCGG 180
Db 181 LADGVSTPTVEYPCGKIPILKRNASKPOGRIVGKVCPEKCEPMQVLLVNGAQLCGG 240
OY 181 TLINTIMVYSAACFPDKIKMNRNLIAVGEHDLSEHDGDSQSRVAQVLIIPSTYVGTTN 240
Db 241 TLINTIMVYSAACFPDKIKMNRNLIAVGEHDLSEHDGDSQSRVAQVLIIPSTYVGTTN 300
OY 241 HDIALRLHQPVLTDHVPVLCIPERTFSERTLAFAVRSLSVSGQLDRGATALEMLVL 300
Db 301 HDIALRLHQPVLTDHVPVLCIPERTFSERTLAFAVRSLSVSGQLDRGATALEMLVL 360
OY 301 NVPRMTODCLOOSRKRVGSDSPNITEYMFCAVSDGSKDSCGSGPHATHYRGTYLWG 360
Db 361 NVPRMTODCLOOSRKRVGSDSPNITEYMFCAVSDGSKDSCGSGPHATHYRGTYLWG 420
OY 361 IYVSGGCGATVGHGFGYTRYSQYIEMLOKLMRSEPRGVLLRAPFP 406
Db 421 IYVSGGCGATVGHGFGYTRYSQYIEMLOKLMRSEPRGVLLRAPFP 466

RESULT 6
US-10-295-682-1

Sequence 1, Application US/10295682
Publication No. US20030100740A1
GENERAL INFORMATION:
APPLICANT: Olsen, Ole Hvilsted
TITLE OF INVENTION: Human Coagulation Factor VII Variants
FILE REFERENCE: 6224, 200-US
CURRENT APPLICATION NUMBER: US/10/295,682
CURRENT FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: PA 2000 01361
PRIOR FILING DATE: 2000-09-13
PRIOR APPLICATION NUMBER: 60/236,455
PRIOR FILING DATE: 2000-09-29
NUMBER OF SEQ ID NOS: 17
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 426
TYPE: PRT
ORGANISM: Native Human Coagulation Factor VII
US-10-295-682-1

Query Match
Best Local Similarity 95.9%; Score 2098; DB 9; Length 426;
Matches 396; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Matches 394: Conservative 0; Mismatches 12; Indels 20; Gaps 5;

QY 1 ANAFL-----XXLRPGL-----XRCK-----XXOCSEFXA-----XRIEKDA--XRTKLF 40
 1 ANAFGLAGLALRPGSLGRLAGLACGLAGLACGSLAGLARGLALFEADGLARTKLF 60

QY 41 WISYSDGDOCCASSPCONGSGCKDQLOSYICFCLPAFGRNCETHKDDOLICVENGSCQ 100
 61 WISYSDGDOCCASSPCONGSGCKDQLOSYICFCLPAFGRNCETHKDDOLICVENGSCQ 120

QY 101 YCSDHTGTRKSCCHGYSLLADGVSCTPVEYPCCKIPLEKRNASKPOGRIVGKVC 160
 121 YCSDHTGTRKSCCHGYSLLADGVSCTPVEYPCCKIPLEKRNASKPOGRIVGKVC 180

QY 161 KGECPMOVLVNVGAOLCGGTLINTIWWVSAHCFDKIKMWRNLIAVLGEHDSSEHGD 220
 181 KGECPMOVLVNVGAOLCGGTLINTIWWVSAHCFDKIKMWRNLIAVLGEHDSSEHGD 240

QY 221 OSRRVAQVIIPSTYVGGTTHNDIALRLHQPVLVTDHVPLCLPRTFSERTLAFAVPSL 280
 241 OSRRVAQVIIPSTYVGGTTHNDIALRLHQPVLVTDHVPLCLPRTFSERTLAFAVPSL 300

QY 281 VSGWGQLDRGATALEMLVNPRLMTODCLOOSRKVGDSPNITEYMFCAYSKSDSC 340
 301 VSGWGQLDRGATALEMLVNPRLMTODCLOOSRKVGDSPNITEYMFCAYSKSDSC 360

QY 341 KGDGSGPHATHRGTYLGTGIVSMGOGCATVGHFGYTVRSQYIEMLOKLMSEPRGVL 400
 361 KGDGSGPHATHRGTYLGTGIVSMGOGCATVGHFGYTVRSQYIEMLOKLMSEPRGVL 420

QY 401 LRAFP 406
 421 LRAFP 426

Db 421 LRAFP 426

RESULT 7
 US-09-951-121A-1
 ; Sequence 1, Application US/09951121A
 ; Publication No. US20030104978A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Persson, Egon
 ; TITLE OF INVENTION: Human Coagulation Factor VII Variants
 ; FILE REFERENCE: 6224.200-US
 ; CURRENT APPLICATION NUMBER: US/09/951,121A
 ; PRIOR FILING DATE: 2001-09-13
 ; PRIOR APPLICATION NUMBER: PA 2000 01361
 ; PRIOR FILING DATE: 2000-09-13
 ; PRIOR APPLICATION NUMBER: 60/236,455
 ; NUMBER OF SEQ ID NOS: 17
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 1
 ; LENGTH: 426
 ; TYPE: PRT
 ; ORGANISM: Native Human Coagulation Factor VII
 ; US-09-951-121A-1

Query Match 95.9%; Score 2098; DB 9; Length 426;
 Best Local Similarity 92.5%; Pred. No. 1,5e-146;
 Matches 394: Conservative 0; Mismatches 12; Indels 20; Gaps 5;

QY 161 KGECPMOVLVNVGAOLCGGTLINTIWWVSAHCFDKIKMWRNLIAVLGEHDSSEHGD 220
 181 KGECPMOVLVNVGAOLCGGTLINTIWWVSAHCFDKIKMWRNLIAVLGEHDSSEHGD 240

QY 221 OSRRVAQVIIPSTYVGGTTHNDIALRLHQPVLVTDHVPLCLPRTFSERTLAFAVPSL 280
 241 OSRRVAQVIIPSTYVGGTTHNDIALRLHQPVLVTDHVPLCLPRTFSERTLAFAVPSL 300

QY 281 VSGWGQLDRGATALEMLVNPRLMTODCLOOSRKVGDSPNITEYMFCAYSKSDSC 340
 301 VSGWGQLDRGATALEMLVNPRLMTODCLOOSRKVGDSPNITEYMFCAYSKSDSC 360

QY 341 KGDGSGPHATHRGTYLGTGIVSMGOGCATVGHFGYTVRSQYIEMLOKLMSEPRGVL 400
 361 KGDGSGPHATHRGTYLGTGIVSMGOGCATVGHFGYTVRSQYIEMLOKLMSEPRGVL 420

QY 401 LRAFP 406
 421 LRAFP 426

Db 421 LRAFP 426

RESULT 8
 US-10-234-406-8
 ; Sequence 8, Application US/10234406
 ; Publication No. US20030109478A1
 ; GENERAL INFORMATION:
 ; APPLICANT: FEWEL, Jason G.
 ; APPLICANT: MACLAUGHLIN, Fiona
 ; APPLICANT: SMITH, Louis C.
 ; APPLICANT: NICOL, Francois
 ; APPLICANT: ROLLAND, Alain
 ; TITLE OF INVENTION: NUCLEIC ACID FORMULATIONS FOR GENE DELIVERY AND METHODS OF USE
 ; FILE REFERENCE: 54964.8303.US01
 ; CURRENT APPLICATION NUMBER: US/10/234,406
 ; PRIOR FILING DATE: 2002-09-03
 ; PRIOR APPLICATION NUMBER: US 60/187,236
 ; PRIOR FILING DATE: 2000-03-03
 ; PRIOR APPLICATION NUMBER: US 60/261,751
 ; PRIOR FILING DATE: 2001-01-16
 ; PRIOR APPLICATION NUMBER: PCT/US01/06953
 ; PRIOR FILING DATE: 2001-03-02
 ; NUMBER OF SEQ ID NOS: 8
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 8
 ; LENGTH: 461
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Expression plasmid pFN1645 having codon optimized sequence enc
 ; US-10-234-406-8

Query Match 38.8%; Score 849; DB 9; Length 461;
 Best Local Similarity 38.9%; Pred. No. 8,8e-55;
 Matches 161: Conservative 71; Mismatches 132; Indels 50; Gaps 7;

QY 11 GSLRXCKXXOCSEFXARXIFDAXRTLFWSYSGDOCCASSPCONGSGCKDQLOSYIC 70
 58 GNLRECHCEKCSFEAEVEFENTERITTEFKOYVDGDCESNPLNGSCDDINSSEC 117

QY 71 FCLPAFGRNCETHKDDOLICVENGSGEYQCSHTGTGRSCCHGYSLLADGVSCTPT 130
 118 WCPFEFGKCNEL---DVTCKIKGRCEQCKNSADKKVYCSCTEGRRLAENOKSCERA 173

QY 131 VEYPCCKIPLEKRNASKPOG-----RIVGKVC 159
 174 VPEYPCCKIPLEKRNASKPOG-----RIVGKVC 233

QY 160 KGECPMOVLVNVGAOLCGGTLINTIWWVSAHCFDKIKMWRNLIAVLGEHDSSEHGD 219
 234 KGECPMOVLVNVGAOLCGGTLINTIWWVSAHCFDKIKMWRNLIAVLGEHDSSEHGD 290

QY 220 EGRRAAOVITSTYVPGT--NHDIALLRHOPVYLTDHVPILCPERTFEDRTIAFNR 277
Db 291 EQRNRVIRIPHHNYNAALIKYNNHDIALLLEDEPLVNSYPTICIAK--EYTNIFLK 347
QY 278 F--SLVSGMQLDRGATALELWLVNVPRLMTODCLOOSRKVDSDNIEVNFCAGSDG 335
Db 348 FCGSGYSGMGVRVYHKRKSALVLOYLVNPLVDRTCLRKTF---TTNNHNCAGFHEG 402
QY 336 SKDCKGSDGSPHATHYRGTWLITGLIVSGGCGCATYGHGVTYRVSYIEMFK 389
Db 403 GRDSCGDSGCPHVTEVEGTSFLTGLIISNGEEDAMGKGTITTKYSRIYNNWKE 456

RESULT 9
US-09-884-901-3

```

Sequence 3, Application US/09884901
Patent No. US20020076798A1
GENERAL INFORMATION:
APPLICANT: Miao, Carol
APPLICANT: Kay, Mark
TITLE OF INVENTION: Liver-Specific Gene Expression Cassettes, and Methods of Use
FILE REFERENCE: WO/91-17396
CURRENT APPLICATION NUMBER: US/09/884,901
CURRENT FILING DATE: 2001-06-18
PRIOR APPLICATION NUMBER: US 60/212,902
PRIOR FILING DATE: 2000-06-20
NUMBER OF SEQ ID NOS: 18
SOFTWARE: Patentin version 3.0
SEQ ID NO 3
LENGTH: 461
TYPE: PRT
ORGANISM: Homo sapien
US-09-884-901-3

```

Query Match	38.8%	Score 849;	DB 10;	Length 461;
Best Local Similarity	38.9%	Pred. No. 8.8e-55;		
Matches 161; Conservative	71;	Mismatches 132;	Indels 50;	Gaps 7

[illegible]

RESULT 10
US-10-132-829-5

; sequence 5, Application US/10132829
 ; Publication No. US20030044982A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Chlen, Kenneth R

```

? APPLICANT: Hoshijima, Masahiko
? TITLE OF INVENTION: Method to treat hemophilia by hepatic gene transfer of Factor
? TITLE OF INVENTION: with vesicle vector
? FILE REFERENCE: 6627-Pa1170
? CURRENT APPLICATION NUMBER: US/10/132,829
? CURRENT FILING DATE: 2002-04-25
? PRIOR APPLICATION NUMBER: 60/286,314
? PRIOR FILING DATE: 2001-04-25
? NUMBER OF SEQ ID NOS: 5
? SOFTWARE: PatentIn version 3.1
? SEQ ID NO 5
? LENGTH: 461
? TYPE: PRT
? ORGANISM: Homo sapiens
US-10-132-829-5

```

ORGANISM: Homo sapiens
US-10-132-829-5

Query Match	38.7%	Score 847;	DB 9;	Length 461;
Best Local Similarity	38.9%	Pred. No. 1.2e-54;		
Matches 161;	Conservative 71;	Mismatches 133;	Indels 50;	Gaps 77;

```
OY      11 GSLKRXCKXXXCSFXXARXIFPKDAARTKLFWISYSDGDQACASSPQONGSCKDOLQSYIC   70
          : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      58 GNLERECMEEKCSPEAREVFEENTERTEFFWKQYVDGQCSPNPLNGSCSKDDINSTEC     117
          : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY      71 FCLPAFGSRNCETKRDOLLIVENGGEBOYCSDHTGTKRSCRCHEGYSLLADGVSCPT    130
          : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      118 WCPFGFEGKNCEL----DYTCNINGRRCOEOPCKNSADRKYVCSCTEGYRLAENOKSCPEA   173
          : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY      131 VEPYCGRIPILEKRNASNPQ-----GRYAGKVC    159
          : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      174 VPFCPGRAVSQSOTSLRFAETVPDPDVYNSTEATLIDNTOSTOSFNDFTRVVGSGDBA     233
          : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
```

Db 234 KPGQFPQOVYLVNGVYDAFCGGSGYNEKVIYPAHC--VETGVKITVAGGHNIETHT 290
QY 220 EQSRRAQVILIPSTYPVGT--NHDIALLRHOPVVLVDHVPCLPRTFSEPTLPAVR 277
Db 291 EQKRNVRIRIIPHHYNNAINKYNNDIALLEIDEPVLNYSYTPICIAK--ETYNIFLK 347
QY 278 F--SLVSGMGLDRGATALEMLNVPRLMTDCLQOSRKVGDSPNTEYMFCAYS DG 335
Db 348 FGSGYVGGMGRVFEKGRSALVLYLRPVLVDRACTLRKTF----TYNNMFCAGFHEG 402
QY 336 SKDSCKSDSGGPHATHTRGTYLYLTGIYMSGGCAVGHFGVYTRVSQIEMLOK 389
Db 403 GRDSCQSDSGGPHATHEVGRSFLGIITISWGECAMKNGTGIYTKSRVNNIKE 456

RESULT 11

US-10-234-406-6
Sequence 6, Application US/10234406
Publication No. US20030109478A1
GENERAL INFORMATION

GENERAL INFORMATION:

APPLICANT: FEWEL, JASON G.

APPLICANT: MACLAUGHLIN, Fiona

; APPLICANT: SMITH, LOUIS C.

APPLICANT: NICOL, Francois

APPLICANT: ROLLAND, Alain

1. TITLE OF INVENTION: NUCLEIC AC

TYPE REFERENCE: E4064 9303 USC

FILE REFERENCE: 34904.0303.050

CURRENT APPLICATION NUMBER: US

; CURRENT FILING DATE: 2002-09-

;
PRIOR APPLICATION NUMBER: US 6

PRIOR FILING DATE: 2000-03-03

PRIOR APPLICATION NUMBER: US 6

PRIOR FILING DATE: 2001-01-16

1. KNOX LEEDS CHIEF, 2001 01 10
2. PRIOR ADDITION ATTENDED PAGE 4

PRIOR APPLICATION NUMBER: PCI/

PRIOR FILING DATE: 2001-03-02

; NUMBER OF SEQ ID NOS: 8 .

; SOFTWARE: PatentIn version 3.1

: SEO ID NO 6

LENGTH: 461

1000

Query Match	38.6%	Score 845	DB 10	Length 415
Best Local Similarity	38.9%	Pred. No. 1,5e-54		
Matches 161	Conservative	70	Mismatches 133	Indels 50
			Gaps 7	
Qy	11	GSIXRCKXXHOCSPFXARXIFPKDARTKLFMTSYSDGDCASSPFGNGSCCKDQLOSYIC	70	
Ddb	12	GNLEPCECKEKCSPFEARFVFENETETTFEMQYDGDGDCESNPICNGSCDDIINSYC	71	
Qy	71	FCLPAFEGRNCETHKRDOLICVNGGCEYOYCSDHTRGCRSCRGHEGYSGLADGVSCTPT	130	
Ddb	72	WCPEFGECKNCL----DYTCINKRGRCGFCFKNSADKNVYSCTEGTVIAENQSCPEA	127	

Query Match	33.7%	Score 736	DB 9	Length 419
Best Local Similarity	37.1%	Pred. No. 1.6e-46		
Matches 157	Conservative 74	Mismatches 156	Indels 36	Gaps 10
QY	1	ANAFLLXLRPGLSLRXKCKXQCSFYXARXIFKDAAPRLKPLMISYSDPDQC-----AS	52	
Db	1	ANSFELELRGSLERECIEICDPEEKKELFEDVDOTLARSKVDDGQCIVLPLEHPCA	60	
QY	53	SPQNGSGCKDQLOSYIICFLPAFEGHNCETHRDQDLCVNEGNGCEQCSADHTGTRSC	112	
Db	61	SLCCGHTGCTIDGIGSFSCDCRSRGMGRFQC-REVSFLNCSLDNGCGCHYCLEEGWNR-C	118	
QY	113	RCHEGTSLADGVSCTPYVEYPCGK-IPILEKRNASKPQC-----RIVGKVCYPK	161	
Db	119	SCAPGKTLDDDLLOCHPAVKFPCGRPMKREKRSHLKRPDEQDQVFPFLIKGMTRR	178	
QY	162	GECPMOVLILVNGAOL-CGGTLINTIWMVSAANCFOPIKWMRLINVLGEHDSHGDGE	220	
Db	179	GSPMOVVLDDSKKTLACGAVLILHPSMWLTLAAHCMESEK---KLVLALGEGYDLRMEKEW	235	
QY	221	OSRRVAOVILPSTPYVGTTHNDILRLRLHQPVLVTHVAVLCLPERFSESLTAFV-RFS	279	
Db	236	LDLDIKREYVHNHNYSKSTTDNDIALHLAOLPATLSQITYPICLPDGLARRELNOAQET	295	
QY	280	LVSNGQLDRGATA----LELMVNLVPRMLTODCLOOSRKVGSDPNITVEYFCAGYS	334	
Db	296	LVTGAGYHSSREKKRBNRTFVLNFKITVVENHNFSPVQ-----SMNSSTFWYCTCTTC	360	

QY 335 GSKDSCGDSGPHATHTYRGTYLTGIVSMGOCATVGHFGVYTRVSOYIEMLOKLMRSE 394
Db 351 DRODACEGDSGPMVASFHGTWFLVGLVSMGCGLLHNHYTVTSRYLMDIGHIRDK 410
QY 395 PRP 397
Db 411 EAP 413

RESULT 14
US-10-182-263-5
Sequence 5, Application US/10182263
Publication No. US20030022354A1
GENERAL INFORMATION:
APPLICANT: Jones, Bruce E
APPLICANT: Gerlitz, Brian W
APPLICANT: Grinnell, Brian W
TITLE OF INVENTION: PROTEIN C DERIVATIVES
FILE REFERENCE: X-13611
CURRENT APPLICATION NUMBER: US/10/182,263
CURRENT FILING DATE: 2002-07-22
PRIOR APPLICATION NUMBER: 60/181948
PRIOR FILING DATE: 2002-02-11
PRIOR APPLICATION NUMBER: 60/189199
PRIOR FILING DATE: 2000-03-14
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn version 3.1
SEQ ID NO 5
LENGTH: 419
TYPE: PRP
ORGANISM: Homo sapiens
US-10-182-263-5

Query Match 33.6%; Score 735; DB 9; Length 419;
Best Local Similarity 37.1%; Pred. No. 1.9e-46;

Matches 157; Conservative 74; Mismatches 156; Indels 36; Gaps 10;

QY 1 ANAFLLXLRPGSLRXKXKXQCSFXAXRKFKAAXTKLFWISYDGDG-----AS 52
Db 1 ANSFLEELRHGSLERECIEICDFEAKKEIFEDVDTLAFWSKHVDDCLVPLEHPCA 60
QY 53 SPONGGSCDKDQASYICFCLPAFEGNCTHKKDOLICVNGGCGOYCSDHGTGRSC 112
Db 61 SLCCGHGTCIDGIGSFSCDCRSWEGRFQ-REVSFLNCSLDNGGCTHYCLEEVGMRR-C 118
QY 113 RCHGYSILADGVSCPTVEYPCGK-IPLEKRNASKPQG-----RIVGKVCPR 161
Db 119 SCAPGYKLGDLLQCHPAVAFPCGRPKRMEKRSKRLKRDTEDEDDQVPRLLIKGMTRR 178
QY 162 GECPMVOYLLVNGAOL-CGGTLINTIWWVSAHCFDKIKMNRNLIAVLGEHDLSEHDGE 220
Db 179 GDSFMVOYLLDSSKKSLAGAVLHPSVNLRAHCHMDSK---KLVLRLGEYDLRRMEKWE 235
QY 221 QSRRAVAVIIPSTYVPGTTHNDIALRLHOPVVLTDHVPVLCLEPRTSEETLAFV-RFS 279
Db 236 LDLDIKREVFAHPNYSKSTNDIALHLAOPATLSQIVPICLPDSGLAERELNOAQOET 295
QY 280 LVSGWGLDLRGATA-----LEMLVAVPRMLMODCLQOSRKVDSPNITEYMFCAAGYSD 334
Db 296 LVYGMGYHSSREKEAKRNRTFVLNFIKIPVYPHNECSEVM-----SNVSENMJCAGILG 350
QY 335 GSKDSCGDSGPHATHTYRGTYLTGIVSMGOCATVGHFGVYTRVSOYIEMLOKLMRSE 394
Db 351 DRODACEGDSGPMVASFHGTWFLVGLVSMGCGLLHNHYTVTSRYLMDIGHIRDK 410
QY 395 PRP 397
Db 411 EAP 413

RESULT 15
US-10-182-263-3

Sequence 3, Application US/10182263
Publication No. US20030022354A1
GENERAL INFORMATION:
APPLICANT: Jones, Bruce E
APPLICANT: Gerlitz, Brian W
APPLICANT: Grinnell, Brian W
TITLE OF INVENTION: PROTEIN C DERIVATIVES
FILE REFERENCE: X-13611
CURRENT APPLICATION NUMBER: US/10/182,263
CURRENT FILING DATE: 2002-07-22
PRIOR APPLICATION NUMBER: 60/181948
PRIOR FILING DATE: 2002-02-11
PRIOR APPLICATION NUMBER: 60/189199
PRIOR FILING DATE: 2000-03-14
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 419
TYPE: PRP
ORGANISM: Homo sapiens
US-10-182-263-3

Query Match 33.4%; Score 730; DB 9; Length 419;
Best Local Similarity 36.9%; Pred. No. 4.4e-46;

Matches 156; Conservative 74; Mismatches 157; Indels 36; Gaps 10;

QY 1 ANAFLLXLRPGSLRXKXKXQCSFXAXRKFKAAXTKLFWISYDGDG-----AS 52
Db 1 ANSFLEELRHGSLERECIEICDFEAKKEIFEDVDTLAFWSKHVDDCLVPLEHPCA 60
QY 53 SPONGGSCDKDQASYICFCLPAFEGNCTHKKDOLICVNGGCGOYCSDHGTGRSC 112
Db 61 SLCCGHGTCIDGIGSFSCDCRSWEGRFQ-REVSFLNCSLDNGGCTHYCLEEVGMRR-C 118
QY 113 RCHGYSILADGVSCPTVEYPCGK-IPLEKRNASKPQG-----RIVGKVCPR 161
Db 119 SCAPGYKLGDLLQCHPAVAFPCGRPKRMEKRSKRLKRDTEDEDDQVPRLLIKGMTRR 178
QY 162 GECPMVOYLLVNGAOL-CGGTLINTIWWVSAHCFDKIKMNRNLIAVLGEHDLSEHDGE 220
Db 179 GDSFMVOYLLDSSKKSLAGAVLHPSVNLRAHCHMDSK---KLVLRLGEYDLRRMEKWE 235
QY 221 QSRRAVAVIIPSTYVPGTTHNDIALRLHOPVVLTDHVPVLCLEPRTSEETLAFV-RFS 279
Db 236 LDLDIKREVFAHPNYSKSTNDIALHLAOPATLSQIVPICLPDSGLAERELNOAQOET 295
QY 280 LVSGWGLDLRGATA-----LEMLVAVPRMLMODCLQOSRKVDSPNITEYMFCAAGYSD 334
Db 296 LVYGMGYHSSREKEAKRNRTFVLNFIKIPVYPHNECSEVM-----SNVSENMJCAGILG 350
QY 335 GSKDSCGDSGPHATHTYRGTYLTGIVSMGOCATVGHFGVYTRVSOYIEMLOKLMRSE 394
Db 351 DRODACEGDSGPMVASFHGTWFLVGLVSMGCGLLHNHYTVTSRYLMDIGHIRDK 410
QY 395 PRP 397
Db 411 EAP 413

Search completed: July 1, 2003, 17:55:40
Job time : 28 secs